

NATIONAL SYNCHROTRON LIGHT SOURCE

SAD RISK ASSESSMENT

APPENDIX 4

SYSTEM: Building 725 activities

SUBSYSTEM: Lasers, magnets, RF, microwaves, visible light

HAZARD: Non-ionizing radiation

HAZARD IMPACT:

Exposure to non-ionizing radiation could result in injury to personnel

RISK ASSESSMENT PRIOR TO MITIGATION:

Consequence	<input type="checkbox"/> I High	<input checked="" type="checkbox"/> II Moderate	<input type="checkbox"/> III Low	<input type="checkbox"/> IV Routine
Probability	<input type="checkbox"/> A Frequent	<input type="checkbox"/> D Remote		
	<input type="checkbox"/> B Probable	<input type="checkbox"/> E Extremely Remote		
	<input checked="" type="checkbox"/> C Occasional	<input type="checkbox"/> F Impossible		
Risk Category	<input type="checkbox"/> I High	<input checked="" type="checkbox"/> II Moderate	<input type="checkbox"/> III Low	<input type="checkbox"/> IV Routine

MITIGATING FACTORS

- **Identification and characterization (measurement) of sources as well as training combine to protect workers and researchers working in the vicinity of these sources.
- LS-ESH-PRM-2.3.2, RF and Microwaves
- BNL SBMS ESH Standard 2.3.2, RF and Microwaves
- Non-Ionizing Radiation (HP-OSH-004) training
- Static Magnetic Fields Subject Area
- Static Magnetic Fields Training
- NSLS Facility Specific Training
- NSLS Briefing Requirements for Visitors Under Escort
- Static Magnetic Fields Exposure Forms
- LS-ESH-PRM-2.3.1, Laser Safety Program Requirements
- Laser Safety Training CBT
- BNL ESH Standard 1.5.3, Interlock Safety for Protection of Personnel
- General Laser Registration Form and Class 2/3a User Permit
- Laser Controlled Area Standard Operating Procedure
- LS-ESH-PRM-1.3.5a, Experiment Safety Review
- Visible Light Hazard at the NSLS VUV and X-ray Rings (LS-ESH-0024)
- Postings to alert personnel
- Surveys of new equipment and of equipment that has undergone a change

RISK ASSESSMENT FOLLOWING MITIGATION:

Consequence	<input type="checkbox"/> I High	<input checked="" type="checkbox"/> II Moderate	<input type="checkbox"/> III Low	<input type="checkbox"/> IV Routine
Probability	<input type="checkbox"/> A Frequent	<input checked="" type="checkbox"/> D Remote		
	<input type="checkbox"/> B Probable	<input type="checkbox"/> E Extremely Remote		
	<input type="checkbox"/> C Occasional	<input type="checkbox"/> F Impossible		
Risk Category	<input type="checkbox"/> I High	<input type="checkbox"/> II Moderate	<input checked="" type="checkbox"/> III Low	<input type="checkbox"/> IV Routine